

REMARKS

Claims 1-21 are pending in the instant application and stand rejected. Claims 1, 2, 4, 6, 8, 9, 10, 12 and 15-22 have been amended, Claims 3 and 5 have been cancelled and new Claims 22 and 23 are submitted for consideration by the Examiner. Support for the amendment can be found, for example, on Page 23 of the instant specification and Figures 2 and 3. Applicants respectfully request reconsideration and allowance of this application.

The rejection of Claims 1-18 and 20-21 under 35 U.S.C. 102(e) as anticipated by or in the alternative as obvious under 35 U.S.C. 103(c) as obvious over Sotzing (U.S.P.N. 7,071,289), and the rejection of Claims 1-18 and 20-21 under 35 U.S.C. 102(e) as anticipated by or in the alternative as obvious under 35 U.S.C. 103(a) as obvious over Sotzing (U.S. 2005/0124784), are respectfully traversed.

Sotzing does not disclose a dispersion, film or device having the claimed particle size, conductivity and rectification ratio. The rectification ratio is beneficial in that it can impart improved properties to the device. The performance advantages that can be obtained by the instant invention are illustrated in Table 1 (e.g., compare Example 1 to Example 2 on Table 1). Sotzing, therefore, fails to inherently or explicitly disclose each and every aspect of the claimed invention and cannot anticipate the claimed invention.

The claimed invention is not obvious in light of Sotzing since there is no reasonable expectation that doping a film will improve its rectification ratio and provide a filterable dispersion. The improved results illustrated in Table 1 are not disclosed, suggested or taught by Sotzing. Applicants respectfully submit that Sotzing cannot establish a *prima facie* case of obviousness and accordingly, request withdrawal of these rejections.

The rejection of Claim 19 under 35 U.S.C. 103(a) as being unpatentable over Sotzing (U.S.P.N. 7,071,289) or Sotzing (US 2005/0124784) in view of Yamamoto et al. (U.S.P.N. 5,540,999), is respectfully traversed.

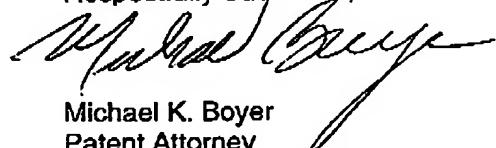
As recognized by the Office Action, Sotzing does not disclose the claimed device. This deficiency is not remedied by Yamamoto et al.

Yamamoto et al. disclose a device that can employ certain specific thiophenes as a hole injection layer. Yamamoto does not disclose polymerized thiophene[3,4-b]thiophene (e.g., the thiophenes of Yamamoto lack a heteroatom). Yamamoto lacks any basis for

concluding or extrapolating that all thiophenes are equivalent or interchangeable. Consequently, any suggestions of Yamamoto are limited to the thiophene compounds disclosed therein. Assuming arguendo that Sotzing and Yamamoto are combinable, the teachings of Yamamoto fail to advance Sotzing in a manner that can arrive at the claimed invention. Applicants, therefore, respectfully submit that Sotzing and Yamamoto cannot establish a *prima facie* case of obviousness against Claim 19.

Applicants believe that the pending claims define patentable subject matter and request issuance of a Notice of Allowance. Should there be any other fee due in connection with this Application, please charge the same to Deposit Account No. 01-0493 (Air Products). Should the Examiner deem that any action on the part of Applicants would advance prosecution, the Examiner is invited to telephone Applicants' attorney.

Respectfully Submitted,



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